

Summary

A multilayer system for the surface-coating of transparent substrates, particularly a low emission (Low-E) multilayer system for glass glazing, has at least one layer of mixed oxides produced by reactive sputtering from a metal target alloy. The layer of mixed oxides is made up of ZnO and  $\text{TiO}_2$  at at least one of the oxides  $\text{Al}_2\text{O}_3$ ,  $\text{Ga}_2\text{O}_3$  and  $\text{Sb}_2\text{O}_3$ . It can act as an upper and/or lower antireflection layer, as a partial layer of an antireflection layer and/or as a top coat. Such a multilayer system is characterized by a high hardness and by very good resistance to a maritime environmental.